

WHAT IS CLAIMED IS:

1. An inkjet head, comprising:
a plurality of ink pressure chambers, each of said ink pressure chambers selectively pressurizing ink supplied thereto to eject the ink from said inkjet head;
a manifold channel being in fluid communication with each of said ink pressure chambers to distribute the ink thereamong; and
a land block provided in said manifold channel, said land block being encircled with the ink.
2. The inkjet head according to claim 1, wherein said inkjet head has a laminated structure of a plurality of plates including at least one manifold plate for defining said manifold channel, said at least one manifold plate having an opening formed therethrough, a land portion which is a portion of said at least one manifold plate left in said opening being provided within said opening, said opening of said at least one manifold plate defining said manifold channel, said land portion of at least one manifold plate forming said land block.
3. The inkjet head according to claim 2, wherein said land portion of said at least one manifold plate is supported with at least one beam formed on said at least one manifold plate, said at least one beam being thinner than said manifold plate.
4. The inkjet head according to claim 2, wherein said opening is formed by etching said manifold plate.
5. The inkjet head according to claim 3, wherein said at least one beam is formed by etching said manifold plate in half-way of the thickness thereof.
6. The inkjet head according to claim 1, wherein said inkjet head has a laminated structure of a plurality of plates including a plurality of manifold plates stacked on each other, wherein each of said manifold plates has an opening formed therethrough, a land portion which is a portion of said manifold plate left in said opening being provided within said opening, said opening of each of said manifold plates forming said manifold channel, said land portion of each of said manifold plates forming said land block.
7. The inkjet head according to claim 6, wherein said land portion of each of said manifold plates is supported with at least one beam formed on each of said manifold plates.
8. The inkjet head according to claim 7, wherein said beams of said plurality of manifold plates are formed on said manifold plates so as not to be completely overlapped when viewed in a direction in which said plurality of manifold plates are stacked.
9. The inkjet head according to claim 7, wherein said beams are formed thinner than respective manifold plates.

10. The inkjet head according to claim 9, wherein said beams are formed by etching said manifold plates in half-way of the thickness thereof.

11. The inkjet head according to claim 1, wherein said inkjet head has a laminated structure of a plurality of plates, said plates including a first manifold plate formed with an opening for defining said manifold channel, a separate plate piece being placed in said opening for forming said land block, said separate plate piece being supported by two of said plates sandwiching said first manifold plate.

12. The inkjet head according to claim 1, further comprising a plurality of plates including a plurality of manifold plates stacked on each other,

wherein each of said plurality of manifold plates is formed with a through opening, the through openings of said plurality of manifold plates as stacked defining said manifold channel, and

wherein said land block is supported by at least one supporting member that is provided to at least one of said plurality of manifold plates.

13. The inkjet head according to claim 1, comprising a plurality of ink supply channels connected to said manifold channel to supply ink from external ink supply to said manifold channel.

14. An inkjet head, comprising:

a plurality of ink pressure chambers, each of said ink pressure chambers selectively pressurizing ink supplied thereto to eject the ink from said inkjet head; and

a manifold channel formed to be a looped channel and being in fluid communication with each of said ink pressure chambers to distribute the ink thereamong.

15. The inkjet head according to claim 14, wherein said inkjet head has a laminated structure of a plurality of plates including at least one manifold plate, said manifold plate having a substantially looped opening formed therethrough surrounding a portion of said manifold plate.

16. The inkjet head according to claim 14, further comprising a laminated structure of a plurality of plates including a plurality of manifold plates stacked on each other,

wherein each of said plurality of manifold plates is formed with a substantially looped opening surrounding a portion of each of said plurality of manifold plates, the looped openings of said plurality of manifold plates defining said manifold channel as said plurality of manifold plates are stacked.

17. The inkjet head according to claim 14, wherein said looped opening of each of said plurality of manifold plates is formed by etching.

18. The inkjet head according to claim 16, wherein said portion of each of said plurality of manifold plates is connected to the manifold plate on which the said portion is provided using at least one beam across said looped opening.

19. The inkjet head according to claim 18, wherein said at least one beam is formed thinner than respective manifold plates.

20. The inkjet head according to claim 19, wherein said beams are formed by etching said manifold plates in half-way of the thickness thereof.

21. The inkjet head according to claim 14, comprising a plurality of ink supply channels connected to said manifold channel to supply ink from external ink supply to said manifold channel.

22. The inkjet head according to claim 9,
wherein said first manifold plate is sandwiched between two second manifold plates, each of said second manifold plates having an opening formed therethrough with a portion of said second manifold plate left in said opening, said portion being supported with a beam formed in said second manifold plate, and

wherein said separate plate piece is held between said portions of said second manifold plates left in said openings thereof.

23. The inkjet head according to claim 22, wherein said openings of said first and second manifold plates have substantially the same shape.

24. The inkjet head according to claim 22, wherein said separate plate piece has substantially the same shape as the portion of said second manifold plate left in said opening thereof.